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	Filing Date		2000-12-13	
	First Named Inventor	Guarente, Leonard P.		
	Art Unit	1645		
	Examiner Name	Zeman, Robert A.		
Attorney Docket Number		0050 2156-001		

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1	Goodman, R.H. and S. Smolik, "CBP/p300 in cell growth, transformation, and development", Genes Dev., 14 (13):1553-1577 (2000)	<input type="checkbox"/>
2	Gottschling, D.E., "Gene silencing: two faces of SIR2", Curr. Biol., 10: R708-R711 (2000)	<input type="checkbox"/>
3	Gu W., et al., "A Novel Human SRB/MED-Containing Cofactor Complex, SMCC, Involved in Transcription Regulation", Mol. Cell, 3:97-108 (Jan. 1999)	<input type="checkbox"/>
4	Gu W., et al., "Activation of p53 Sequence-Specific DNA Binding by Acetylation of the p53 C-Terminal Domain", Cell, 90:595-606 (Aug. 1997)	<input type="checkbox"/>
5	Gu, W., et al., "Synergistic Activation of Transcription by CBP and p53", Nature, 387:819-823 (June 1997)	<input type="checkbox"/>
6	Guarente, L. and C. Kenyon, "Genetic Pathways That Regulate Ageing in Model Organisms", Nature, 408:255-262 (Nov. 2000)	<input type="checkbox"/>
7	Guarente, L. "UASs and Enhancers: Common Mechanism of Transcriptional Activation in Yeast and Mammals", Cell, 52:303-305 (Feb. 1988)	<input type="checkbox"/>
8	Guarente, L., "Sir2 links chromatin silencing, metabolism, and aging", Genes Dev., 2000, vol. 14, pp. 1021-1026	<input type="checkbox"/>
9	Guo, J.C., et al., "Dual Analyte Flow Injection Fluorescence Immunoassays Using Thiophilic Gel Reactors and Synchronous Scanning Detection", Analyst, 125(10):1707-1708 (Sep. 2000)	<input type="checkbox"/>
10	Hamlyn et al. EMBL/GenBank/DDBJ databases Accession No. Z46833 (Nov. 1994)	<input type="checkbox"/>
11	Harley, C.B., et al., "Telomeres Shorten During Ageing of Human Fibroblasts", Nature, 345:458-460 (May 1990)	<input type="checkbox"/>

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12	Hayflick, L. and P. S. Moorhead, "The Serial Cultivation of Human Diploid Cell Strains", Exp. Cell Res., 25:585-621 (May 1961)	<input type="checkbox"/>
13	Hayflick, L., "The Limited in vitro Lifetime of Human Diploid Cell Strains", Exp. Cell Res., 37:614-636 (1965)	<input type="checkbox"/>
14	Hill, A.A., et al., "Genomic Analysis of Gene Expression in <i>C. elegans</i> ", Science, 290: 809-812 (Oct. 2000)	<input type="checkbox"/>
15	Hirao, A., et al., "DNA damage-induced activation of p53 by the checkpoint kinase Chk2", Science, 287 (5459):1824-1827 (Mar. 2000)	<input type="checkbox"/>
16	Hirsch, H.R., "Accumulation of a Senescence Factor in Yeast Cells," Experimental Gerontology, 28(2):195-204 (1993)	<input type="checkbox"/>
17	Hollstein, M., et al., "Database of p53 Gene Somatic Mutations in Human Tumors and Cell Lines", Nucleic Acids Res., 22:3551-3555 (1994)	<input type="checkbox"/>
18	Holtzman, et al., "synthetic-lethal interactions identify two novel genes, SLA1 and SLA2, that control membrane cytoskeleton assembly in <i>Saccharomyces cerevisiae</i> ", J. Cell Bio., 122:635-644 (1993)	<input type="checkbox"/>
19	Honda, R. and H. Yasuda, "Association of p19(ARF) With Mdm2 Inhibits Ubiquitin Ligase Activity of Mdm2 for Tumor Suppressor p53", EMBO J., 18(1):22-27 (1999)	<input type="checkbox"/>
20	Houghten, R.A., et al., "Generation and Use of Synthetic Peptide Combinatorial Libraries for Basic Research and Drug Discovery", Nature, 354:84-88 (Nov. 1991)	<input type="checkbox"/>
21	Imai, S., et al., "Transcriptional silencing and longevity protein Sir2 is an NAD-dependent histone deacetylase", Nature, 403:795-800 (Feb. 2000)	<input type="checkbox"/>
22	Imai, S., et al., "Sir2: an NAD-Dependent Histone Deacetylase that Connects Chromatin Silencing, Metabolism, and Aging," Cold Spring Harbor Symp. Quant. Biol., 65:297-302 (2000)	<input type="checkbox"/>

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23	International Search Report for PCT/US94/09351 Dated 01-23-1995	<input type="checkbox"/>
24	Ito, M., et al., "Identity between TRAP and SMCC Complexes Indicates Novel Pathways for the Function of Nuclear Receptors and Diverse Mammalian Activators", Mol. Cell., 3:361-370 (Mar. 1999)	<input type="checkbox"/>
25	Ivy, J.M., et al., "Map Positions of Yeast Genes SIR1, SIR3 and SIR4," Genetics III, 735-744 (Dec. 1985)	<input type="checkbox"/>
26	Jazwinski, M., "Longevity, Genes, and Aging", Science, 273:54-59 (July 1996)	<input type="checkbox"/>
27	Jazwinski, S.M., "Genes of Youth: Genetics of Aging in Baker's Yeast," ASM News, 59(4):172-178 (1993)	<input type="checkbox"/>
28	Jazwinski, S.M., "Aging and Senescence of the Budding Yeast Saccharomyces Cerevisiae," Molecular Microbiology, 4 (3):337-343 (Oct. 1990)	<input type="checkbox"/>
29	Juan, L., et al., "Histone Deacetylases Specifically Down-Regulate p53-Dependent Gene Activation", J. Biol. Chem., 275(27):20436-20443 (July 2000)	<input type="checkbox"/>
30	Kastan et al., "A mammalian cell cycle checkpoint pathway utilizing p 53 and TGADD45 is defective in ataxia-telangiectasis", Cell, 1992, vol. 71, pp. 587-597	<input type="checkbox"/>
31	Kenyon, C., et al., "A C. elegans Mutant That Lives Twice as Long as Wild Type", Nature, 366:461-464 (Dec. 1993)	<input type="checkbox"/>
32	Kobet et al., "MDM2 inhibits p300-mediated p53 acetylation and activation by forming a ternary complex with the two proteins", Proc. Natl. Acad. Sci. USA, 2000, vol. 97, pp. 12547-12552	<input type="checkbox"/>
33	Koffler, B., et al., "Purification and Characterization of NAD <sup>+</sup> -ADP-Ribosyltransferase (Polymerizing) from Dictyostelium Discoideum," Biochem. J., 293:275-281 (1993)	<input type="checkbox"/>

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34	Kohl, N E , et al , "Selective Inhibition of ras-Dependent Transformation by a Farnesyltransferase Inhibitor", Science, 260:1934 (June 1993)	<input type="checkbox"/>
35	Koll, F , et al , "A 1100-bp Sequence of Mitochondrial DNA Is Involved in Senescence Process in Podospora: Study of Senescent and Mutant Cultures", Plasmid,14:106-117 (June 1985)	<input type="checkbox"/>
36	Kouzarides, T., "Acetylation: a Regulatory Modification to Rival Phosphorylation?" EMBO J., 19:1176-1179 (2000)	<input type="checkbox"/>
37	Kung, A L , et al , "Gene Dose-Dependent Control of Hematopoiesis and Hematologic Tumor Suppression by CBP", Genes Dev., 14(3):272-277 (2000)	<input type="checkbox"/>
38	Lam, et al , "Rational design of potent, bioavailable, nonpeptide cyclic ureas as HIV protease inhibitors", Science, 1994, vol. 263, p. 380	<input type="checkbox"/>
39	Lam, K S , et al "A New Type of Synthetic Peptide Library for Identifying Ligand-Binding Activity", Nature, 354 82-84 (Nov. 1991)	<input type="checkbox"/>
40	Lambert, P F , et al , "Phosphorylation of p53 Serine 15 Increases Interaction with CBP", J. Biol Chem , 273:33048-33053 (Dec. 1998)	<input type="checkbox"/>
41	Landry, J , et al , "The Silencing Protein SIR2 and its Homolog are NAD-Dependent Protein Deacetylases," PNAS, 97 (11):5807-5811 (May 2000)	<input type="checkbox"/>
42	Landry, J , et al , "Role of NAD(+) in the Deacetylase Activity of the SIR2-like Proteins", Biochem. Biophys. Res. Commun., 278:685-690 (Oct. 2000)	<input type="checkbox"/>
43	Lavitrano, M , et al , "Sperm Cells as Vectors for Introducing Foreign DNA into Eggs: Genetic Transformation of Mice", Cell, 57 717-723 (June 1989)	<input type="checkbox"/>
44	Lazarus, C M , et al , "Amplification of a Mitochondrial DNA Sequence in the Cytoplasmically Inherited Ragged Mutant of Aspergillus amstelodami", Eur. J. Biochem, 106:663-641 (1980)	<input type="checkbox"/>

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45	Lee, S. and D.S. Gross, "Conditional Silencing: The HMRE Mating-Type Silencer Exerts a Rapidly Reversible Position Effect on the Yeast HSP82 Heat Shock Gene," Molecular and Cellular Biology, 13(2) 727-738 (1993)	<input type="checkbox"/>
46	Lee, S.E., et al., "Role of Yeast SIR Genes and Mating Type in Directing DNA Double-Strand Breaks to Homologous and Non-Homologous Repair Paths", Curr. Biol., 9:767-770 (Jul. 1999)	<input type="checkbox"/>
47	Levine, A.J., "p53, the Cellular Gatekeeper for Growth and Division", Cell, 88:323-331 (Feb. 1997)	<input type="checkbox"/>
48	Li, Y., et al., "Long-Term Caloric Restriction Delays Age-Related Decline in Proliferation Capacity of Murine Lens Epithelial Cells in vitro and in vivo", Invest. Ophthalmol., 38(1): 100-107 (Jan. 1997)	<input type="checkbox"/>
49	Liang, R., et al., "Parallel Synthesis and Screening of a Solid Phase Carbohydrate Library", Science, 274:1520-1522 (Nov. 1996)	<input type="checkbox"/>
50	Lill, N.L., et al., "Binding and Modulation of p53 by p300/CBP Coactivators", Nature, 387:823-827 (June 1997)	<input type="checkbox"/>

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